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Search for JoAnn Crandall for client 11998.Sus01.

English abstract for JP 1-145066.

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DIALOG(R)File 351:DERWENT WPI

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WPI Acc No: 89-107655/198915

Removing gas from inside heart - involves hollow needle inserted through skin and connected to pump

Patent Assignee: EVANS P H (EVAN-I)

Inventor: EVANS P H

Number of Countries: 006 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
DE 3831540	A	19890406	DE 3831540	A	19880916		198915 B
FR 2620337	A	19890317				198918	
GB 2209678	A	19890524	GB 8821226	A	19880909		198921
US 4834707	A	19890530	US 8798226	A	19870916		198926
CH 678277	A	19910830				199138	
GB 2209678	B	19920325	GB 8821226	A	19880909		199213
CA 1299454	C	19920428	CA 577254	A	19880913	A61M-001/10	199222
DE 3831540	C2	19930624	DE 3831540	A	19880916	A61M-001/00	199325

Priority Applications (No Type Date): US 8798226 A 19870916

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
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DE 3831540	A		9			
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US 4834707	A		10			
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DE 3831540	C2		11			
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Abstract (Basic): DE 3831540 A

The instrument is for the mechanical strengthening of the heart and improving the condition, at least temporarily, of heart defects such as congestion. The instrument consists of a hollow needle which is inserted through the skin into a chamber of the heart.

The proximal end of the needle is connected to a pump which removes gas which has accumulated in the heart chamber. The needle has a filter to prevent the outflow of blood.

USE/ADVANTAGE - The presence of gas in the heart chambers reduces the rate at which the heart can pump blood. Removal of the gas increases the pumping efficiency of the heart.

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Abstract (Equivalent): DE 3831540 C

The instrument is for the mechanical strengthening of the heart and improving the condition, at least temporarily, of heart defects such as congestion. The instrument consists of a hollow needle which is

inserted through the skin into a chamber of the heart.

The proximal end of the needle is connected to a pump which removes gas which has accumulated in the heart chamber. The needle has a filter to prevent the outflow of blood.

USE/ADVANTAGE - The presence of gas in the heart chambers reduces the rate at which the heart can pump blood. Removal of the gas increases the pumping efficiency of the heart. (9pp Dwg.No.0/10)

Abstract (Equivalent): GB 2209678 B

Blood gas venting apparatus comprising an elongate tubular housing adapted for introduction into a heart chamber and having an inlet and an outlet and a tip adapted to puncture the skin, filter means within said housing to permit the passage of gases and to prevent the passage of liquids into said housing, said filter means being removably retained in said housing and replaceable without removing said housing tip from the skin, flexible conduit means communicating with the interior of said housing for venting gases from the heart, attachment means for connecting pumping means to said flexible conduit means outside the skin to facilitate removal of gases and stop means to halt flow through said flexible conduit.

Abstract (Equivalent): US 4834707 A

The apparatus for mechanically enhancing heart functions has an elongated hollow tubular housing having an inlet and an outlet and a tip adapted to puncture the skin. There is a filter within the housing adequate to permit the passage of gases and prevent the passage of liquids into the housing. A flexible conduit communicates with the interior of the housing for venting gases from the heart.

The filter is removably retained in the housing and replaceable without removing the housing tip from the skin. A removable guide is positioned within the flexible conduit. An attachment connects the pump to the flexible conduit means outside the skin to facilitate removal of gases. (10pp)e

Derwent Class: P34

International Patent Class (Main): A61M-001/10

International Patent Class (Additional): A61M-001/34